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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/735,668	12/16/2003	Dov Moran	246/234	2836
759	90 06/27/2006		EXAMINER	
DR. MARK FRIEDMAN LTD.			NORRIS, JEREMY C	
C/o Bill Polkinghorn Discovery Dispatch			ART UNIT	PAPER NUMBER
9003 Florin Way			2841	
Upper Marlboro	, MD 20772		DATE MAILED: 06/27/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/735,668	MORAN, DOV			
	Office Action Summary	Examiner	Art Unit			
		Jeremy C. Norris	2841			
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover shee	t with the correspondence address			
WHIC - Exte after - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1. ^o SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	PATE OF THIS COMML 136(a). In no event, however, ma will apply and will expire SIX (6) e, cause the application to becom	INICATION. y a reply be timely filed MONTHS from the mailing date of this communication to ABANDONED (35 U.S.C. § 133).			
Status				•		
1) 又	Responsive to communication(s) filed on 12 J	une 2006.				
		s action is non-final.				
3)	Since this application is in condition for allowa	natters, prosecution as to the merits is	S			
	closed in accordance with the practice under					
Disposit	ion of Claims					
4)🖂	Claim(s) 1-16 is/are pending in the application	1.				
,	4a) Of the above claim(s) is/are withdra					
5)□	Claim(s) is/are allowed.					
6)⊠	Claim(s) 1-16 is/are rejected.					
7)	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and/o	or election requirement.				
Applicat	ion Papers			•		
9)[The specification is objected to by the Examine	er.				
	The drawing(s) filed on 16 December 2003 is/a) objected to by the Examiner.			
	Applicant may not request that any objection to the					
	Replacement drawing sheet(s) including the correct		•	d).		
11)	The oath or declaration is objected to by the Ex	xaminer. Note the attac	hed Office Action or form PTO-152.			
Priority (under 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreigr ☐ All b)☐ Some * c)☐ None of:		C. § 119(a)-(d) or (f).			
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority document		·			
	3. Copies of the certified copies of the prio		en received in this National Stage			
* 0	application from the International Burea See the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •	ant received			
	ree the attached detailed Office action for a list	of the certified copies i	lot received.	•		
Attachmen	t(s) e of References Cited (PTO-892)	" –				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		ew Summary (PTO-413) No(s)/Mail Date			
3) 🔲 Inforr	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		of Informal Patent Application (PTO-152)			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8 May 2006 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 5-13, and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by US 6,020,629 (Farnworth).

Farnworth discloses, referring primarily to figures 2C & D, an electronic module, comprising; electronic circuitry (20); first connection mechanism (40), operationally connected to said electronic circuitry, for mounting of the electronic module on a printed circuit board by a first method; and a second connection mechanism (42), operationally connected to said electronic circuitry, for mounting of the electronic module on a printed circuit board by a second method different from said first method, wherein mounting using only one of said connection mechanisms is needed to render the electronic

module fully operational [claim 1], wherein said first method is robotic mounting and said second method is manual mounting [claim 2], wherein said first connection mechanism is directly operationally connected to said electronic circuitry [claim 3], wherein said second connection is operationally connected to said electronic circuitry via said first mechanism connection mechanism [claim 5].

Alternately, Farnworth discloses, referring primarily to figure 10, an electronic module, comprising; electronic circuitry (20); first connection mechanism (42), operationally connected to said electronic circuitry, for mounting of the electronic module on a printed circuit board by a first method; and a second connection mechanism (40), operationally connected to said electronic circuitry, for mounting of the electronic module on a printed circuit board by a second method different from said first method wherein mounting using only one of said connection mechanisms is needed to render the electronic module fully operational [claim 1], wherein said second connection mechanism is directly operationally connected to said electronic circuitry [claim 6], wherein said second connection is operationally connected to said electronic circuitry via said first mechanism connection mechanism [claim 7], wherein first connection mechanism includes at least one substantially hemispherical solder ball (col. 5, lines 15-20) [claim 8], wherein said second connection mechanism includes at least one electrically conducting pad (col. 5, lines 15-20) [claim 9], wherein said at least one solder ball and said at least one pad are like in number [claim 10], further comprising: for each said solder ball, and for a respective said pad, a respective wire (44) operationally connecting said each solder ball to said respective pad [claim 11].

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wherein said second connection mechanism includes at least one electrically conducting pad (col. 5, lines 15-20) [claim 12], further comprising an electrically insulating body (12) whereon said electronic circuitry, said first connection mechanism and said second connection mechanism are mounted [claim 13].

Additionally, Farnworth discloses, an electronic module, comprising; electronic circuitry (20); a first connection mechanism (40), operationally connected to said electronic circuitry (figure 2), for mounting of the electronic module by a first method; and a second connection mechanism (42), operationally connected to said electronic circuitry, for mounting of the electronic module on a printed circuit board by a second method different from said first method, and an electrically insulating body (12) whereon said electronic circuitry, said first connection mechanism and said second connection mechanism are mounted wherein mounting using only one of said connection mechanisms is needed to render the electronic module fully operational [claim 16].

Claims 1-4, 6, 13, 15, and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by US 6,081,430 (La Rue).

La Rue discloses, referring primarily to figure 7, an electronic module (40), comprising; electronic circuitry (7); first connection mechanism (44), operationally connected to said electronic circuitry, for mounting of the electronic module on a printed circuit board (1) by a first method; and a second connection mechanism (37), operationally connected to said electronic circuitry, for mounting of the electronic module on a printed circuit board (6) by a second method different from said first

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method, wherein mounting using only one of said connection mechanisms is needed to render the electronic module fully operational [claim 1], wherein said first method is robotic mounting and said second method is manual mounting [claim 2], wherein said first connection mechanism is directly operationally connected to said electronic circuitry [claim 3], wherein said second connection is directly operationally connected to said electronic circuitry [claim 4], wherein said second connection mechanism is directly operationally connected to said electronic circuitry [claim 6], further comprising an electrically insulating body (12) whereon said electronic circuitry, said first connection mechanism and said second connection mechanism are mounted [claim 13].

Similarly, La Rue discloses, an electronic module (40), comprising; electronic circuitry (7); a first connection mechanism (44), directly operationally connected to said electronic circuitry, for mounting of the electronic module by a first method; and a second connection mechanism (37), directly operationally connected to said electronic circuitry, for mounting of the electronic module on a printed circuit board by a second method different from said first method wherein mounting using only one of said connection mechanisms is needed to render the electronic module fully operational [claim 15].

Additionally, La Rue discloses, an electronic module, comprising; electronic circuitry (7); a first connection mechanism (44), operationally connected to said electronic circuitry, for mounting of the electronic module by a first method; and a second connection mechanism (37), operationally connected to said electronic circuitry, for mounting of the electronic module on a printed circuit board by a second method

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different from said first method, and an electrically insulating body (40) whereon said electronic circuitry, said first connection mechanism and said second connection mechanism are mounted wherein mounting using only one of said connection mechanisms is needed to render the electronic module fully operational [claim 16].

Claims 1, 13, and 14 are rejected under 35 U.S.C. 102(e) as being anticipated by US 7,010,629 B1 (Frame).

Frame discloses, referring primarily to figure 2, an electronic module (20), comprising; electronic circuitry (21); first connection mechanism (56), operationally connected to said electronic circuitry, for mounting of the electronic module on a printed circuit board (25) by a first method (vertical mounting); and a second connection mechanism (57), operationally connected to said electronic circuitry, for mounting of the electronic module on a printed circuit board (25) by a second method (angular mounting, col. 3, lines 40-60) different from said first method, wherein mounting using only one of said connection mechanisms is needed to render the electronic module fully operational [claim 1], further comprising an electrically insulating body whereon said electronic circuitry, said first connection mechanism and said second connection mechanism are mounted [claim 13], wherein both said first connection mechanism and said second connection mechanism are mounted on a common side of said body [claim 14].

Response to Arguments

Applicant's arguments filed 8 May 2006 have been fully considered but they are not persuasive.

Applicant's arguments with respect to claims 4 and 14-16 have been considered but are most in view of the new ground(s) of rejection.

Regarding claims 1-3 and 5-13, Applicant argues that Farnworth only discloses one connection method (contact 42) for mounting on a printed circuit board. However, in doing so, Applicant ignores that the ordinarily skilled artisan would recognize that each module 12 disclosed by Farnworth is indeed a "printed circuit board" in its own right. Thus, Farnworth does indeed disclose a first connection method (e.g. pads 40) for mounting to a printed circuit board (another module 12) and a second connection method (e.g. contacts 42) for mounting to a printed circuit board (an external board, col. 9, lines 1-10). Hence, the invention of Farnwoth is indeed germane to the instantly claimed invention and Applicant's traversal of the rejection on this ground is deemed unsuccessful.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeremy C. Norris whose telephone number is 571-272-1932. The examiner can normally be reached on Monday - Friday, 9:30 am - 5:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on 571-272-1957. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JCSN

Jeremy C. Norris

Patent Examinen

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